

## CLAIMS

What is claimed is:

- 5        1. An interface device having a video BIOS component, comprising:  
          a substrate for implementing a mother board connection and implementing a GPU  
          (graphics processor unit) connection; and  
          a video BIOS component mounted on the substrate for providing video BIOS  
          functions for the computer system.
- 10        2. The interface device of claim 1 further comprising:  
          a GPU mounted on the substrate with the video BIOS component.
- 15        3. The interface device of claim 2 further comprising:  
          a DRAM component mounted on the substrate with the GPU and the video BIOS  
          component.
- 20        4. The interface device of claim 2 further comprising:  
          a plurality of DRAM components mounted on the substrate, wherein the GPU is  
          mounted in a flip chip configuration.
- 25        5. The interface device of claim 2 wherein the video BIOS component  
          programmed in accordance with a type of the GPU.
6. The interface device of claim 1 wherein the substrate includes a plurality of  
          circuits for interfacing the video BIOS component with the GPU connection.

7. A GPU interface device, comprising:

a substrate for coupling a GPU to a PCB (printed circuit board), the substrate having a first interface for a connection to the GPU and a second interface for a connection to the PCB, the first interface having a customizable attachment footprint for implementing a connection to differing GPU types while maintaining the second interface for the connection to the PCB; and

5 a video BIOS component for providing video BIOS functions, wherein the video BIOS chip is programmed to support a version of the GPU.

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8. The GPU interface device of claim 7 wherein the customizable attachment footprint of the first interface includes a plurality of ground balls configured to support high-speed signaling of a GPU.

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9. The GPU interface device of claim 7 wherein the second interface is configured to support at least two DACs for a plurality of displays.

10. The GPU interface device of claim 7 wherein the second interface is configured to support a digital video output for a digital display.

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11. The GPU interface device of claim 7 wherein the differing GPU types are identical GPU integrated circuits and differing amounts of memory.

12. The GPU interface device of claim 7 wherein the substrate includes a plurality of circuits for coupling the video BIOS component with the first interface for the differing GPU types.

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13. A computer system having a combined GPU video BIOS package, comprising:

- a motherboard for mounting a plurality of integrated circuit components;
- a GPU package adapted to connect to the motherboard;
- 5 a GPU included in the GPU package for providing graphics processor functions for the computer system; and
- a video BIOS chip included in the GPU package for providing video BIOS functions for the computer system, wherein the video BIOS chip is programmed to support a version of the GPU.

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14. The computer system of claim 13 further comprising:

- an interface adapted to couple to the GPU package and implement a connection between the GPU package and the motherboard.

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15. The computer system of claim 13 further comprising:

- a substrate for mounting the GPU and the video BIOS component.

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16. The computer system of claim 15 further comprising:

- a DRAM component mounted on the substrate with the GPU and the video BIOS component.

17. The computer system of claim 15 further comprising:

- a plurality of DRAM components mounted on the substrate, wherein the GPU is mounted in a flip chip configuration.

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18. The computer system of claim 13, wherein the video BIOS is programmed for the GPU when the GPU package is manufactured.